09/296528

## PATENT COOPERATION TREATY

PCT

#### From the INTERNATIONAL BUREAU

To:

## NOTIFICATION OF THE RECORDING OF A CHANGE

(PCT Rule 92bis.1 and Administrative Instructions, Section 422)

HAN-YANG PATENT FIRM 10th Floor, Dacom Building 706-1 Yeoksam-dong Gangnam-gu Seoul 135-987 RÉPUBLIQUE DE CORÉE

Date of mailing (day/month/year) 02 October 2001 (02.10.01)	
Applicant's or agent's file reference P00PC035/PCT	IMPORTANT NOTIFICATION
International application No.	International filing date (day/month/year)
PCT/KR01/00072	17 January 2001 (17.01.01)
The following indications appeared on record concerning:     the applicant	the agent the common representative
Name and Address .	State of Nationality State of Residence
SHINSUNG PATENT FIRM	
Haecheon Bidg., 741-40, Yeoksam 1- dong,	Telephone No.
Kangnam-ku Seoul 135-081	82-2-555-7503
Republic of Korea	Facsimile No.
·	82-2-553-1450
	Teleprinter No.
2. The International Bureau hereby notifies the applicant that th	e following change has been recorded concerning:
the person X the name X the addr	the nationality the residence
Name and Address	State of Nationality State of Residence
HAN-YANG PATENT FIRM	
10th Floor, Dacom Building 706-1 Yeoksam-dong	Telephone No.
Gangnam-gu	
Seoul 135-987 Republic of Korea	Facsimile No.
	Teleprinter No.
3. Further observations, if necessary:	-
4. A copy of this notification has been sent to:	
X the receiving Office	X the designated Offices concerned
X the International Searching Authority	the elected Offices concerned
the International Preliminary Examining Authority	other:

**Authorized officer** 

Telephone No.: (41-22) 338.83.38

Form PCT/IB/306 (March 1994)

Facsimile No.: (41-22) 740.14.35

The International Bureau of WIPO 34, chemin des Colombettes

1211 Geneva 20, Switzerland

**Dominique DELMAS** 

## PATENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU
PCT	то:
NOTIFICATION OF THE RECORDING OF A CHANGE  (PCT Rule 92bis.1 and Administrative instructions, Section 422)  Date of meiling (day/month/year) 02 October 2001 (02.10.01)	HAN-YANG PATENT FIRM 10th Floor, Dacom Building 706-1 Yeoksam-dong Gangnam-gu Seoul 136-987 RÉPUBLIQUE DE CORÉE
Applicant's or agent's file reforence P00PC035/PCT	IMPORTANT NOTIFICATION
International application No. PCT/KR01/00072	International filing date (day/month/year) 17 January 2001 (17.01.01)
The following indications appeared an record concerning:  X the applicant the inventor	the agent the common representative
Name and Address  EGC & C CO., LTD. #1407 Mijin Plaza Bldg. 825, Yeoksam 1-dong Kangnam-ku Seoul 135-081 Republic of Korea	State of Nationality KR KR Telephone No. 82-2-326-3782 Facsimile No.
The International Bureau hereby notifies the applicant that the person	
Name and Address EGC & C CO., LTD.	State of Nationality State of Residence  KR KR
4th Floor Dongsung Building 481-1 Mangwon-dong Mapo-gu Seoul 121-230 Republic of Korea	Telephone No. 82-2-326-3782 Fassimile No. Teleprinter No.
3. Further observations, if necessary:	
4. A copy of this notification has been sent to:  X the receiving Office  X the International Searching Authority the International Proliminary Examining Authority	X the designated Offices concerned the elected Offices concerned other:
The International Bureau of WIPO 94, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer  D minique DELMAS
Facsimile No.: (41-22) 740.14.36	Telephone No.: (41-22) 338.83.38

PAGE: 10 WO 01/53958 PCT/KR01/0007:

#### PCT

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

From the INTERNATIONAL BUREAU

To:

SHINSUNG PATENT FIRM
Haecheon Bidg., 741-40, Yeoksam 1dong.

Kangnam-ku Seoul 135-081

RÉPUBLIQUE DE CORÉE

Date of mailing (day/month/year)

26 July 2001 (26.07.01)

Applicant's or agent's file reference

P00PC035/PCT

**IMPORTANT NOTICE** 

International application No. PCT/KR01/00072

International filing date (day/month/year)
17 January 2001 (17.01.01)

Priority date (day/month/year)
17 January 2000 (17.01.00)

Applicant

EGC & C CO., LTD. et al.

Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application
to the following designated Offices on the date indicated above as the date of mailing of this Notice:
 AU,KP,KR,US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AE,AG,AL,AM,AP,AT,AZ,BA,BB,BG,BR,BY,BZ,CA,CH,CN,CR,CU,CZ,DE,DK,DM,DZ,EA,EE,EP,ES,FI,GB,GD,GE,GH,GM,HR,HU,ID,IL,IN,IS,JP,KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,MG,MK,MN,MW,MX,MZ,NO,NZ,OA,PL,PT,RO,RU,SD,SE,SG,SI,SK,SL,TJ,TM,TR,TT,TZ,UA,UG,UZ,VN,YU,

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

 Enclosed with this Notice is a copy of the international application as published by the International Bureau on 26 July 2001 (26.07.01) under No. WO 01/53958

### REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

#### REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

J. Zahra

Facsimile No. (41-22) 740.14.35

Telephone No. (41-22) 338.83.38

# PALENT COOPERATION TREAT...

#### PCT

#### NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

EGC & C CO., LTD. et al

From the INTERNATIONAL BUREAU

SHINSUNG PATENT FIRM Haecheon Bldg., 741-40, Yeoksam 1dong, Kangnam-ku

Seoul 135-081 RÉPUBLIQUE DE CORÉE

Oate of mailing (day/month/year) 02 July 2001 (02.07.01)	
Applicant's or agent's file reference POOPC035/PCT	IMPORTANT NOTIFICATION
International application No. PCT/KR01/00072	International filing date (day/month/year) 17 January 2001 (17.01.01)
International publication date (day/month/year)  Not yet published	Priority date (day/month/year) 17 January 2000 (17.01.00)
Applicant	

- The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date or receipt, or by the letters "NR", in the right-hand column, the priority document concerned was submitted or transmitted to the international Bureau in compliance with Rule 37.1(a) or (b).
- 2. This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
- 3. An asterisk(\*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b), in such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the international Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity. upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

<u>Priority date</u>	Priority application No.	Country or regional Office or PCT receiving Office	Date of receipt of priority document
17 Janu 2000 (17.01.00)	2000/1953	KR	06 June 2001 (06.06.01)
26 Janu 2000 (26.01.00)	2000/38 <b>3</b> 6	KR	95 June 2001 (06.06.01)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

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Authorized officer

Dominique DELM

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#### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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**PCT** 

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- (72) Inventor: HWANG, Jun [KR/KR]; #1-501. Shiyoung Apt., Jungkye-dong, Nowon-ku, Scoul 139-220 (KR).
- (21) International Application Number: PCT/KR01/00072
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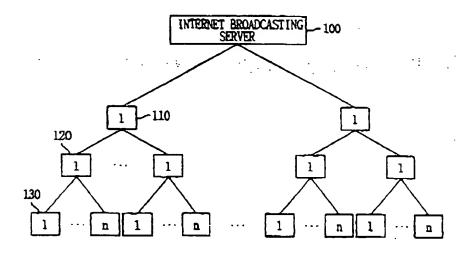
(72) Inventors; and

(71) Applicant and

- (75) Inventors/Applicants (for US only): ZEE, Dae-Hoon [KR/KR]: 10-10. 30, Chung-dong, Dobong-ku, Seoul 132-091 (KR), KIM, Yong-Bwa [KR/KR]: 432-5 Byung-bang-dong, Kyeyang-ku, Incheon-shi 407-320 (KR).
- (74) Agent: SHINSUNG PATENT FIRM; Haecheon Bldg., 741-40, Yeoksam 1-dong., Kangnam-ku. Seoul 135-081 (KR).
- (81) Designated States (national): AE. AG. AL. AM. AT. AIJ. AZ. BA. BB. BG. BR. BY. BZ. CA. CH. CN. CR. CU. CZ. DE, DK. DM. DZ. EE. ES, FI. GB, GD, GE, GH, GM, HR. HU. ID, IL. IN. IS. IP. KE, KG, KP. KR. KZ. LC. LK. LR. LS. LT. LU, LV. MA. MD. MG. MK. MN. MW. MX. MZ. NO, NZ, PL. PT. RO, RU, SD. SE. SG. SL SK, SL. TJ. TM. TR. TT. TZ, UA. UG, US, UZ, VN, YU, ZA, ZW.

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR PROVIDING INTERNET BROADCASTING DATA BASED ON HIERARCHICAL STRUCTURE



(57) Abstract: A system and method for providing Internet broadcasting data based on hierarchical structure, which can reduce a bottleneck problem due to data congestion. The method for providing Internet broadcasting data includes the steps of: a) if a connection request signal is received from a first terminal, determining whether a number of terminals connected to a server is smaller than a threshold value; b) if the number of the terminals connected to the server is smaller than the threshold value, transmitting broadcasting data to the first terminal; and c) if the number of the terminals connected to the server is not smaller than the threshold value, leading the first terminal to try to connected a second terminal, wherein the second terminal is one of the terminals connected to the server.

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Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

#### INTERNATIONAL SEARCH REPORT

international application No. PCT/KR01/00072

A. CLAS	SIFICATION OF SUBJECT MATTER		
	G06F 15/00, G06F 17/00		
According to Ir	nternational Patent Classification (IPC) or to both nation	al classification and IPC	
	DS SEARCHED		
Minimun docu	mentation searched (classification system followed by c	lassification symbols)	
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Documentation	searched other than minimun documentation to the extension	ent that such documents are included in the file	ds searched
Electronic data	base consulted during the intertnational search (name o	of data base and, where practicable, search tren	ns used)
C. DOCUM	MENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appr	ropriate, of the relevant passages	Relevant to claim No.
۸	US-5983005 (Netcast Communications Corp.) Novem  * Abstract *	nber 9, 1999	1-13
۸	US-5991306 (Microsoft Corporation) November 23. 1  * Whole document *	999	1 - 13
٨	US-5774660 ( Resonate, Inc. ) June 30, 1998		1 - 13
	* Whole document *		
		See patent family annex.	
	r documents are listed in the continuation of Box C.		
	ategories of cited documents: t defining the general state of the art which is not considered	"I" later document published after the internati date and not in conflict with the applicati	
to be of p	articular relevence	the principle or theory underlying the invention "X" document of particular relevence; the claim	ntion
"I:" carlier ap filing date	optication or patent but published on or after the international c	considered novel or cannot be considered	
	at which may throw doubts on priority claim(s) or which is establish the publication date of citation or other	step when the document is taken alone "Y" document of particular relevence; the clain	ned invention cannot be
special n	eason (as specified)	considered to involve an inventive step	when the document is
"O" document means	t referring to an oral disclosure, use, exhibition or other	combined with one or more other such do being obvious to a person skilled in the art	cuments, such contoniation
	it published prior to the international filing date but later priority date claimed	"&" document member of the same patent fami	İy
Date of the ac	tual completion of the international search	Date of mailing of the international search re	port
2	28 MARCH 2001 (28.03.2001)	29 MARCH 2001 (29.03.2001)	
1	ailing address of the ISA/KR	Authorized officer	
Government	sstrial Property Office Complex-Taejon. Dunsan-dong, So-ku, Taejon n City 302-701. Republic of Korea	YANG. In Soo	455
	o. 82-42-472-7140	Telephone No. 82-42-481-5782	סוביוע
Form PCT/ISA	V210 (second sheet) (July 1998)		

### INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/KR01/00072

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US-5983005	November 9, 1999	None	-
US-5991306	November 23, 1999	None	
US-5774660	June 30, 1998	None	
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Form PCT/ISA/210 (patent family annex) (July 1998)